

NEWSLINE

Published weekly for employees of Lawrence Livermore National Laboratory

Friday, February 27, 2004

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Cafe serves up new dining option

By Charles Osolin
NEWSLINE STAFF WRITER

With a round of speeches and a week-long grand opening featuring vendors offering samples of their products, LLNL's new Central Café formally opened for business this month.

In dedication ceremonies on Feb. 18, Lab officials and representatives of the Department of Energy, Lyons Construction and Eurest Dining Services applauded the \$4.9 million cafeteria as an important step in improving the quality of life for Lab employees.

Lab Director Michael Anastasio noted that an employee survey in 2001 identified expanded employee services on the increasingly populated



JACQUELINE MCBRIDE/NEWSLINE

Keisha Hadley serves Kinnon Ernst, followed by Joni Schuld, during a celebration marking the opening of full services in the new Central Cafe.

West side of the Lab as an important need. LLNL worked with DOE in a pilot project to build the new cafeteria using institutional general plant project

See CAFE, page 5

Former Lab physicist Reed to provide insider's view of Cold War one-upmanship

By Carol Gerich
DIRECTOR'S OFFICE

Tom Reed, former Secretary of the Air Force and earlier an A Division physicist, will deliver an insider's view of the Cold War on Tuesday, March 16, at 3:30 p.m. in the Bldg. 123 auditorium. All employees and retirees are invited to hear Reed's talk, sponsored by the Laboratory History Project, on the nuclear one-upmanship between the United States and Soviets that dominated the '50s to the '90s.

Reed was a prominent player in the Cold War — as Secretary of the Air Force, as director of the National Reconnaissance office, and as a special assistant to President Reagan for National Security Policy. While at the Lab early in his career, he worked on Operation Dominic, served as lead designer for one test in the series, and observed one of the last atmospheric tests of a thermonuclear device. He still serves as consultant to the Laboratory.

Reed compiles his perspectives and personal history in a new book, "At the Abyss,"

See REED, page 7

Gamma-ray bursts show mettle

By Anne M. Stark
NEWSLINE STAFF WRITER

One gamma-ray burst produces enough zinc to give every person on each planet a hundred million dollars in pennies. That is, of course, if every star in the galaxy had a planet like Earth with about a billion inhabitants.

These findings and others have shown that one gamma-ray burst (GRB) has the ability to produce an awful lot of small change.

Jason Pruet of LLNL, along with Rebecca Surman and Gail McLaugh-

lin of North Carolina State University, have found that in addition to providing nature's most impressive light-shows, GRBs are also important sources of several common elements. The discovery came after recent observations indicating that each GRB expels about half a solar mass of readily visible radioactive nickel moving at 40,000 kilometers per second.

The research is published in the Feb. 20 edition of *Astrophysical Jour-*

See GAMMA, page 8

Worm slows e-mail to a crawl

By David Schwoegler
NEWSLINE STAFF WRITER

Last week witnessed the successful debut of the network security team's extension blocker. That software defended against an assault by a new worm, "W32.Beagle.B," until an anti-virus vendor supplied defini-

tions to intercept the malicious code directly. That worm, which had a high propagation rate, was carried in a ".exe" file attached to e-mail messages.

On Wednesday morning, a new virus dubbed "NetSky.C" successful-

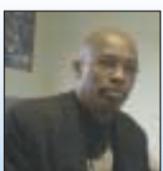
See E-MAIL, page 3

Gen. Gordon visit



FRANK NUNEZ/TID

Gen. John Gordon (left), assistant to the president and homeland security adviser, receives an update Tuesday on the National Ignition Facility (NIF) from Ed Moses, NIF project manager. Gordon also visited the recently completed International Security Research Facility and drove by the Terascale Simulation Facility during his half-day visit.



Profiles
in community service

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Administrative
and Specialist Q&A

— Page 7



Snake, rattle
and stroll

— Page 8



LAB COMMUNITY NEWS

Weekly Calendar

Technical Meeting Calendar, page 4

Friday
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The Laboratory will celebrate **National Engineers Day** today from 9 a.m. to 2 p.m. in the Bldg. 123 auditorium and in the area across from the West Cafeteria, with special events for school-age children. Greg Brown from The Technology Museum of Innovation in San Jose will deliver this year's keynote address, "You're Already An Engineer." Students between the ages of 10 and 14 will also have the opportunity to participate in hands-on demos such as LEGO Mindstorms, Sunspots and "what's in a computer," among other activities. More than 600 students are expected to attend this year's event. To volunteer or for more information, contact Elizabeth Wheeler, 3-6245, or Scott Winters, 2-6767.

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The **Benefits Office** will continue the brown-bag series on how to enhance financial security by participating in the Tax-Deferred 403(b). The next session will be today from 12:15 - 1:15 p.m., in Bldg. 571, conference room 2301. Additional sessions will be held on the last working day of each month (excluding November and December) throughout 2004. Attendance is open and no pre-registration is required. Bring your lunch and your questions. For additional information about benefit services or events, go to the Website at www.llnl.gov/llnl/02employment/benefits/seminars.htm.

Saturday
28

There will be a **scheduled power outage** from 7 a.m. today through 3 p.m. Sunday. Power may be on and off numerous times during this outage. Buildings affected are 405, 418, 419, 501, 509, 510, 511, 512, 513, 513A, 514, 514A, 515, 516, 517, 517A, 518A, 519, 519A, 520, 522, 523, 525, 611, 612, 612A, 614, 615, 616, 619, 621, 622, 623, 624, 625, 639. Trailers affected include 5104, 5105, 5125, 5198, 5207, 5225, 5226, 6127, 6178, 6179, 6197, 6197B, 6198, 6199, 6199A, 6199B, 6203, 6205, 6297, 6302, 6325. There will be another scheduled power outage from 7 a.m. to 3 p.m. today in Bldg. 411 and Trailers, 4161, 4180, 4181, 4182 and 4184. Air conditioning, heating and elevators also will be affected. For questions or further information, contact Mark Cardoza, 3-0490.

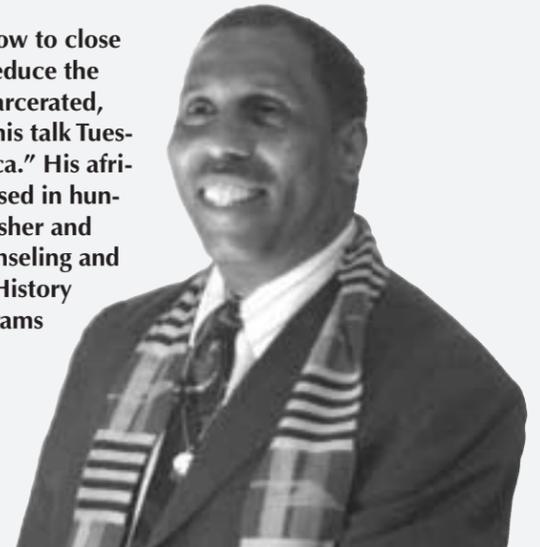
UP
&
COMING

The Asian Pacific American Council (APAC) is asking for donations of **old/used cell phones** for their fundraising activity. The funds raised will go towards the APAC Scholarship Fund. Donate your old/used cell phones (personal cell phones only, no government cell phones accepted) at one of two drop off points: Bldg. 694 Room 1046 or B151 Room 1132 from February 26 to March 12. For more information, please contact Barry Dahling, APAC Scholarship Committee chair at 4-4882 or Ricky Chau, APAC chair at 3-4388.

Balance of power

Jawanza Kunjufu addressed questions such as how to close the racial academic achievement gap, how to reduce the number of African American males that are incarcerated, and how to close the racial wealth gap, during his talk Tuesday, "Challenges and Solutions for Black America." His afri-centric-multicultural curriculum, SETCLAE, is used in hundreds of schools nationwide. He is a book publisher and executive director of a tutorial, mentoring, counseling and rites of passage agency. His talk, part of Black History Month, was sponsored by LLNL's Worklife Programs Office and the Association of Black Laboratory Employees.

JULIE KORHUMMEL/NEWSLINE



Saturday talk delves into galaxies

Research astronomer Wil van Breugel from the Lab's Institute of Geophysics and Planetary Physics and Los Gatos High School physics teacher Dan Burns will present "Galaxies and Black Holes: The Good, the Bad, and the Ugly" during this year's final "Science on Saturday" lecture this Saturday (Feb. 28) at 9:30 a.m. at the Amador Theater, 1155 Santa Rita Rd., Pleasanton.

The lecture will discuss how astronomers are currently making astounding discoveries about galaxies and the super-massive black holes that lurk in their hearts. Using the most advanced telescopes on Earth and in space, they are learning about the good; how galaxies

◆ February 28, 2004 ◆

Galaxies and Black Holes: The Good, the Bad, and the Ugly
Wil van Breugel, research astronomer, Institute of Geophysics and Planetary Physics
Dan Burns, physics teacher, Los Gatos High School

All lectures are free and held at the Amador Theater located at 1155 Santa Rita Rd., Pleasanton. All lectures start at 9:30 a.m. and end at 11:15 a.m. Seating is on a first come first serve basis, and there is no pre-registration.

and stars form, the bad; how black holes form, and the ugly; how active black holes beam radiation into the galaxy.

The "Science on Saturday" series of lectures and demonstrations are intended for students in grades 6-12. Seating is on a first come, first serve basis and

there is no pre-registration. Directions, maps, and a complete list of this year's lectures are available on the SOS Website at <http://education.llnl.gov/sos/2004/>

For additional information contact: Richard Farnsworth, manager of LLNL's Science & Technology Education Program, 2-5059.

IN MEMORIAM

Guy E. Smith

Guy E. Smith, a 37-year resident of Livermore, died Monday, Feb. 23. He was 82.

Smith was born June 1, 1921, in Missouri. He moved to Livermore in 1967. A chief in the U.S. Coast Guard, he served for 20 years. He also worked as a police officer at the Laboratory and retired in 1984.

Smith was a member of the Eagles Erie No. 609 in Livermore for 32 years and a member of the Elks No. 2117. A lifetime member of the Veterans of Foreign Wars Post 3982 in Mission Santa Clara. He enjoyed country western music.

He is survived by his wife of 57 years, Esther; his stepson, Larry Curtman of Montana; his brother Dewey Smith of Albuquerque; two grandchildren; five great-grandchildren; and one great-great grandchild.

Services will be held at 11 a.m. today at Wilson Family Funeral Chapel, 3070 East Ave., Livermore. Donations may be made to the charity of one's choice.

Laurence S. Hall

Laurence S. Hall died Feb. 21.

Hall was an internationally renowned physicist who studied and taught at UC Berkeley and

worked at the Laboratory. His family remembers his wit and love of the arts. Donations may be sent to Doctors Without Borders, P.O. Box 1856, Merrifield, VA 22116-8056.

Newsline

Newsline is published weekly by the Internal Communications Department, Public Affairs Office, Lawrence Livermore National Laboratory (LLNL), for Laboratory employees and retirees.

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AROUND THE LAB



Ralph Howard has found a calling in community work

Editor's note: This profile inaugurates an occasional series highlighting the outreach efforts of Laboratory employees and members of LLESA networking groups.

By Don Johnston

NEWSLINE STAFF WRITER

Ralph Howard works in two "very different worlds."

By day he works in the Laboratory's Benefits Office as a retirement investment counselor, the latest in a variety of assignments since he arrived in June 1999 that have included the Compensation and acting group leader of the Work/Life Program.

In the evening, Howard travels to his other world, that of his ministry and the community work it undertakes in Pittsburgh. "A seven-day week of activities."

For the past two years, he has served as pastor of Solomon Temple Baptist Church in Pittsburgh, overseeing the activities of its 550 members, most recently a project to build a kindergarten through 12th grade school for underprivileged children. He lives with his wife and 16-year-old son in nearby Antioch.

"It's a very different world," Howard says, but one the native of Daly City has come to know well. "I grew up in the San Francisco area and my father was the minister of a church in the City."

"I was fortunate and when the opportunity came up, it was natural for me to give back to the communi-



Ralph Howard

JULIE KORHUMMEL/NEWSLINE

Community **CHAMPIONS**

ty," he said. "My family upbringing provided the right spiritual grounding."

To his Pittsburgh church's endeavor to provide "vibrant daycare," tutoring and scholarships for needy students — without regard to race, Howard brings 10 years of experience as a pastor in San Francisco's Bay View Hunter's Point community. Last year, Solomon Temple provided \$8,000 in scholarships.

The worlds he inhabits are a study in contrasts. "For the kids in the community I work with, the world of science and technology is just a dream," Howard said. "Lack of funding and a variety of other issues,

such as the environment they live in, place them at a strategic disadvantage.

"We work to counterbalance the general malaise in that specific environment," he said. "Our real objective is to give them the tools to survive."

"There are so many reasons that lead some kids to stop trying. We're working to give them a reason to try," he said. "We want them to stop plummeting."

"The most satisfying aspect of this work is helping individuals to improve their lives at the margins," Howard said, noting that very small changes can have a huge impact later on. "Sometimes the difference between winning and losing is a tenth of a second or a tenth of an inch. In the long run, even a minimal change in direction is very significant."

Reflecting on former San Francisco Mayor Willie Brown's recent observation that little progress has been made in providing equal educational opportunity since the 1960s, Howard said he believes that "working on the margins of society will, over time, make Willie Brown's the norm rather than the exception."

Howard said his work at the Laboratory "dealing with a wide variety of people" helps him in his community work. He has tapped Lab employees, notably members of the Association of Black Laboratory Employees (ABLE), to make presentations to groups in his community.

"They provide encouragement and show there are opportunities for African Americans," he said.

'Odyssey' of Columbia shuttle investigation recounted

By Anne M. Stark

NEWSLINE STAFF WRITER

When G. Scott Hubbard received that call at 6:30 a.m. Feb. 1, 2003, and heard "the shuttle is overdue," he felt sick to his stomach.

He turned on the TV. "I remember having that terrible feeling in the pit of my stomach. Seeing that and knowing that those seven brave lives were lost and we were facing within the agency a catastrophe of enormous proportions."

Hubbard, director of the NASA Ames Research Center and sole NASA official on the Columbia Accident Investigation Board, on Tuesday discussed his role in uncovering the physical and organizational causes of the Columbia tragedy during his Director's Distinguished Lecturer Series presentation, "The Columbia



BOB HIRSCHFELD/NEWSLINE

G. Scott Hubbard

heat that's generated as part of that re-entry. I knew that something very, very awful was probably happening."

Hubbard said the investigation was, not only a seven-month odyssey of uncovering physical evidence, but also "an investigation into the roots of an organization in which over time some very unfortunate

Accident Investigation: Causes and Contributors in a High-Risk Environment."

"There is no such thing as an overdue shuttle," Hubbard said. "You begin that re-entry process, you're committed to the forces of gravity and trying to defy those forces and the tremendous

practices had accumulated."

The board searched through 30,000 documents, 200 interviews and conducted 10 public hearings. Throughout the investigation, Hubbard said the focus always turned back to the Columbia shuttle crew.

"We were working in the legacy of the crew — to try to find out what happened, to fix it and to do everything we possibly could to see that it never happened again," he said.

While the physical evidence for the cause of the breakup pointed to the three pieces of foam that broke off the shuttle during launch, the organizational cause lied much deeper in the history and culture of the shuttle program, Hubbard said.

"There were a whole set of practices that were detrimental to safety," he said.

Hubbard said there may be some lessons learned for the Lab in exploring the possible parallels between what the board uncovered as part of the Columbia investigation and the source of accidents or concerns when carrying out high risk work at LLNL.

The talk will be rebroadcast on LabTV Channel 3 on March 4 at 10 a.m., noon, 2, 4 and 8 p.m. and 2 a.m. on March 5.

WORM

Continued from page 1

ly infected some Lab Windows PC computers. This new malady gained e-mail access because it was enclosed as a ".zip" attachment, according to Dave Grubb head of Livermore's network security team, a part of the Lab's Cyber Security program.

"Historically, we've not had a lot of trouble with '.zip' attachments containing malicious code, and a lot of folks rely on .zip files to get data from their colleagues," Grubb said. "So we've let them pass through our extension blocker."

Like its predecessor last week, this new code was

a mass-mailing worm that sends e-mail messages to the addresses it gathers from machines it infects. The infected Lab machines generated a huge volume of e-mail messages that slowed servers to a crawl, effectively bringing e-mail service to a halt. All the Lab's systems stayed up, however, and normal operation was restored late Wednesday afternoon.

Employees were first warned of the malady through an emergency public address announcement, with clarifications provided on the Lab's portal. Computer users were further cautioned that they might have received an infected message before the cleanup began.

Grubb reminded Windows PC users "not to click on any files attached to any e-mail messages received on Wednesday morning — especially if the name of the attachment ends in '.zip' or '.exe'. If you have questions,

or are concerned that your computer may be infected, contact your information system security officer (ISSO)."

Chief Cyber Security Officer Mark Graff, who coordinated LLNL's rapid response to the NetSky virus, said his team will re-evaluate admitting ".zip" files to Lab servers as part of steps to prevent a recurrence.

"Of course, blocking them outright — few places do, so far — would have an operational impact we'd like to avoid," Graff said. "But in light of this episode, we'll take another look."

"I'd like everyone to understand that our defenses are blocking hundreds of thousands of e-mail-borne viruses per year at this point — and they're getting more complex every month. Cyber security today is a back-and-forth battle. Once in a while, a round will get through."



NEWS YOU CAN USE

Opportunities to collaborate with small business

Researchers looking for funds to supplement ongoing research, a way to partner with the marketplace to speed technology transfer goals, and opportunities that could lead to royalty income from commercialization, should attend the seminar on the Small Business Innovation Research (SBIR) Program and the Small Business Technology Transfer (STTR) Program at 10 a.m. Tuesday, March 2, in the Bldg. 361 auditorium.

More than \$2 billion is available annually for R&D with small businesses through two federally funded small business programs — the Small Business Innovation Research

(SBIR) Program and the Small Business Technology Transfer (STTR) Program. Grants provide up to \$100,000 for Phase I feasibility studies and up to \$750,000 for Phase II development that would lead to commercialization of the technology.

The presenter for this seminar will be Robert Berger, who is uniquely qualified on the topic. From 1995 until 2003, Berger was responsible for designing and managing the annual SBIR and STTR competitions at the Department of Energy, with final responsibility for the selection of all awards in these programs. Berger was one of only 10 SBIR pro-

gram managers in the federal government, and because of the size of the DOE's research program, one of only five STTR program managers.

A representative from the Industrial Partnerships and Commercialization Office will present information on the process for committing LLNL's participation in an SBIR or STTR project. And the president of a local company will share her experience in partnering with LLNL to win an SBIR award.

For more information or questions, contact Connie Pitcock, 2-1072, or pitcock@llnl.gov.

Technical Meeting Calendar

Friday
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INSTITUTE FOR GEOPHYSICS & PLANETARY PHYSICS

"Extrasolar Planets: The Shadow Knows..." by David Charbonneau, California Institute of Technology.

Noon, Bldg. 319, room 205. Contact: Wil van Breugel, 2-7195, or Josie Morgado, 2-7181.

ENGINEERING CENTER FOR COMPUTATIONAL ENGINEERING

"Active Impedance Surfaces for Wireless Communication," by Dan Sievenpiper, HRL Laboratories. 2 p.m., Bldg. 235, Gold Room (1090). Contact Ann Tyler, tyler8@llnl.gov, or Lori Goerz, goerz2@llnl.gov, to obtain the abstract.

Monday
1

ASCI INSTITUTE FOR TERASCALE SIMULATION

"Programming, Language and Libraries," by Bjarne Stroustrup, Texas A&M University. 10:30 a.m., Bldg.

123 auditorium (uncleared area). Contacts: Dan Quinlan, 3-2668, or Pamela Mears, 2-3981.

BIOSECURITY & NANOSCIENCES LABORATORY SEMINAR

"Kinetic Modeling of Thermodynamically Inhibited Nucleation-Growth Reactions," by Alan Burnham, Chemical Biology & Nuclear Science Division. 2 p.m., Bldg. 151, room 1209 Stevenson Room (P-cleared). Contact: Jim DeYoreo, 3-4240, or Brynn Bollinger, 2-6637.

Tuesday
2

COMPUTATION/LC: MPI TOPICS COLLOQUIUM

"Analysis of AIX Traces with Paraver," by Jesus Labarta, European Center for Parallelism of Barcelona.

10 a.m., Bldg 451, room 1025 (uncleared area). Contact: Terry Jones, 3-9834, trj@llnl.gov.

PHYSICS & ADVANCED TECHNOLOGIES DIRECTORATE-WIDE SEMINAR

"Prospects For Studying Living Cells With Semiconductor Nanocrystals," by Daniele Gerion. 2 p.m., Bldg. 2128, room 1000 (CUF), Contact: Alan J. Wootton, 2-6533

CHEMICAL BIOLOGY & NUCLEAR SCIENCE BIOSECURITY & NANOSCIENCES LABORATORY SEMINAR SERIES

"Ultrasensitive Label-Free DNA Sensors Using Car-

bon Nanotube Nanoelectrode Arrays," by Jun Li, NASA Ames Research Center, Center for Nanotechnology. 2 p.m., Bldg. 151, room 1209 (Stevenson Room). Foreign nationals may attend if appropriate security plan is on file, which includes Bldg. 151. Contact: Katie Thomas, 2-7903.

PHYSICS & ADVANCED TECHNOLOGIES DIRECTORATE-WIDE POSTDOC FOURM

"X-ray Emission from Accretion Disks: Light with a Twist," by Benjamin F. Mathiesen, 1:30 p.m., Bldg. 2128, room 1000 (Common Use Facility), Contact: Andrew J. Williamson, 2-8285

Wednesday
3

LDRD WORKSHOP

If you are interested in submitting a proposal to the FY05 Laboratory Directed Research and Development (LDRD) Laboratory-Wide (LW) competition, attend the following workshop on the LW proposal submission-and-review process. 11 a.m.-noon, Bldg. 155, room 1101 auditorium. Contact: Jeffrey C. Grossman, 3-6991, or grossman3@llnl.gov.

INSTITUTE FOR SCIENTIFIC COMPUTING RESEARCH

"How to Search a Social Network," by Lada Adamic, Hewlett Packard Laboratories. 10 a.m., Bldg. 451, room 1025 (property protection area). For more information, go to <http://www.llnl.gov/casc/calendar.shtml>. Contact: Edmond Chow, (CASC) 3-1915, or Leslie Bills, 3-8927.

Thursday
4

RADIATION DETECTION CENTER

"Alternative' " Signatures and Methods for Radiation Detection," by Tony Peurung, Pacific Northwest National Laboratory. 11 a.m., Bldg. 132S, room 1000.

SNSI. U.S. citizenship / L-clearance required. Contact: Ron Wurtz, 3-8504, or Christie Shannon, 3-6683.

CHEMISTRY AND MATERIALS SCIENCE DIRECTORATE/MATERIALS SCIENCE AND TECHNOLOGY DIVISION

"Research Opportunities at the Lujan Neutron Scattering Center at LANSCE," by Alan Hurd, director, Manuel Lujan Jr. Neutron Scattering Center, Los Alamos National Laboratory. 10:30 a.m., Bldg. 235 Gold Room (room 1090). Contact: Christian Mailhot, 2-5873, or Kathy Gonzales 3-7023.

INSTITUTE FOR SCIENTIFIC COMPUTING RESEARCH

"Computation of Laser Cavity Eigenmodes by Finite Elements," by Christoph Pflaum, University Erlangen-Nuernberg. 10 a.m., Bldg. 451, room 1025 (property

protection area). For more information, go to <http://www.llnl.gov/casc/calendar.shtml>. Contact: Rob Falgout, (CASC) 2-4377, or Leslie Bills, 3-8927.

Friday
5

INSTITUTE FOR GEOPHYSICS & PLANETARY PHYSICS

"Toward Understanding the Sun's Magnetic Fields and their Effects," by Alan Title, Stanford-Lockheed Institute for Space Research. Noon, Bldg. 319, room 205.

Contact: Wil van Breugel, 2-7195, or Sharon Taberna, 3-6290.

BIOSECURITY & NANOSCIENCES LABORATORY SEMINAR

"iHigh Z-Resolution Microscopy of Membrane Interfaces," by Caroline Ajo-Franklin, grad student, Stanford University. 2 p.m., Bldg. 151, room 1209 (Stevenson Room). Foreign nationals may attend if appropriate security plan is on file, which includes Bldg. 151. Contact: Katie Thomas, 2-7903.

CHEMICAL BIOLOGY & NUCLEAR SCIENCE DIVISION/CHEMISTRY & MATERIALS SCIENCE DIRECTORATE

"The Danish Preparedness System Against Biological Terrorism," by Karin Grenlund Jakobsen, National Centre for Biological Defense, Statens Serum Institute. 1:30 p.m., Bldg. 155 auditorium. Foreign nationals may attend if appropriate security plan is on file, which includes Bldg. 155. Contact: David Ferguson, 2-5530, or Eryn Davis, 2-0475.

INSTITUTE FOR SCIENTIFIC COMPUTING RESEARCH

"Middleware Support for Data Ensemble Analysis," by Joel Saltz, Ohio State University. 10:30 a.m., Bldg. 451, room 1025 (property protection area). For more information, go to <http://www.llnl.gov/casc/calendar.shtml>. Contact: Bill Arrighi, (CADSE) 4-3557, or Leslie Bills, 3-8927.

The deadline for the next Technical Meeting Calendar is noon, Wednesday.

Send your input to tmc-submit@llnl.gov. For information on electronic mail or the Technical Meeting Calendar list, see the auto registration service on the Web.

CAFE

Continued from page 1

(IGPP) funds.

Thanks to both the associate DOE administrator for infrastructure and security and the office of DOE's chief financial officer, Anastasio said, "we were able to find a way to meet the needs of the people on the site," and the result is "a big step in achieving our long-range site plan."

John Bernier of DOE's Office of Infrastructure and Facilities Management said the "huge success" of the cafeteria project "has paved the way for other GPP projects throughout the (DOE laboratory) complex. These projects are intended to provide quality-of-life improvements and I can't think of a better facility to accomplish that goal." Bernier and other speakers credited Denise Robinson, the Lab's institutional facilities manager, with keeping the project's cost on target.

Before and after the speeches, the invited guests toured the cafeteria and were treated to samples of the facility's offerings. This week's activities included the open house, raffles, prizes and food tastings.

The 16,000-square-foot building is on a landscaped site adjacent to the Main Library, with a panoramic view and indoor seating for 400 diners. Two patios provide outdoor seating for an addi-



JACQUELINE MCBRIDE/NEWSLINE

During the opening ceremony last week, Director Michael Anastasio said the new cafe is "a big step in achieving our long-range site plan." Above is a view of the spacious dining room and outdoor terrace of the newly completed 16,000-square-foot cafeteria.

tional 190 customers.

Key members of the project team were project manager Barbara Pulliam; construction manager Jim Leimbach; Stu Jossey, Michelle Quick,

Rich Reiser, Lara Page and Ken Chelini of the business services food management group; and Eileen Nasto and Jan Randolph of the procurement department.

TRRs now have access to Procurement & Materiel's electronic ordering system

Editor's note: Procurement & Materiel will periodically publish informational notices and articles in Newsline and NewsOnLine to keep employees informed of LINCS project developments.

Procurement & Materiel is continuing the development of a new application, called the



Laboratory Integrated Network for Contracts and Supply (LINCS), to replace the existing PARIS, TOPS, and other legacy ordering systems. P&M has expanded the capability and reach of the LINCS Electronic Ordering System (EOS).

EOS is an e-commerce application that supports online catalog shopping carts, checkout features, electronic approvals and notifications, advanced search capabilities, and electronic transmission of orders to suppliers.

As of Wednesday, Feb. 25, all technical release representatives (TRRs) were granted access to EOS. They may shop the EOS catalogs and place orders with EOS suppliers. Since all TRRs have access to EOS, the P&M UniCard system only needs one type of credit card. Previously, TRRs used e-commerce cards to purchase desktop and laptop computers from GMR and their UniCard for all other purchases.

TRRs will now use their UniCard for all purchases, including computers from GMR. Desktop and laptop computers are controlled items and may only be purchased from GMR using EOS. TRRs cannot purchase any other controlled or attractive items with their UniCard.

As noted in a previous *Newsline* article, P&M is converting its Material Request system to EOS, one catalog at a time. The Oakland Valve and VWR Material Request catalogs have been converted to EOS catalogs. All TRRs have access to these EOS catalogs. Between now and May, P&M will replace the remaining Material Request catalogs with EOS catalogs. After a catalog is replaced, items from these suppliers may only be purchased through EOS and Material Request catalogs will not be available.

P&M encourages all TRRs to become familiar with and begin using EOS. Customer Support has scheduled drop-in EOS training sessions to help TRRs learn to use EOS. Go to the P&M home page for dates and times. For more information, contact P&M Customer Support, 3-3448, or pcs@llnl.gov.

Join your co-workers in fighting cancer

Purchase a bunch of freshly cut daffodils (10 stems) for \$10.

A vase is available for an additional \$8.

Money from this American Cancer Society-sponsored event will go to research, education and patient services.



The deadline for an LLNL order is **Tuesday, March 2.**
Delivery will be on **Monday, March 22.**

Check the list below for the LLNL Daffodil Days volunteer nearest you who is accepting orders.

Name	Bldg.	Rm.	L-code	Phone	Name	Bldg.	Rm.	L-code	Phone
Barnes, Tracey	111	501R	L-001	3-9060	Pierce, Sue	2679	1269	L-386	3-1094
Bell, Christine	543	2075	L-640	3-9447	Pope, Kathy	274	1021	L-504	3-1015
Berkich, Tracy	071	1020	L-102	2-8246	Quick, Bonnie	451	1041	L-561	2-6510
Bireley, Kathy	543	Lobby	L-638	2-8431	Raziano, Donna	1878	110	L-278	2-8517
Breznik, Joanne	616	100	L-697	4-4101	Rutan, Dena	231	2454	L-344	3-0696
Conrad, Janet	113	4048	L-073	2-7561	Sarlund, Nancy	261	1508	L-387	2-5072
Continente, Jenifer	132N	2001	L-103	2-6644	Schrader, Barry	6526	Chairman	Daffodil	Days
De Marco, Barbara	2775	1004A	L-395	4-2272	Schuld, Joni	111	Accounting	Committee	
Emmrich, Shirley	551E	1090A	L-654	2-6206	Sefcik, Cookie	121	1013	L-051	3-2242
Fread, Lanette	411	1422	L-518	2-9288	Shuler, Jean	113	1030	L-067	3-1909
Grandfield, Charlene	5475	1359	L-633	3-1779	Silva, Kathy	235	2070	L-356	4-2597
Greenfield, Jodi	170	1079	L-103	4-6460	Springer, Frankie	111	332	L-016	3-6192
Horner, Nadine	6526	1003	L-797	3-9051	Sorensen, Nanette	2925	101	L-397	2-9670
Harrison, Jaquie	481	2253A	L-493	2-2823	Spears, Jodi	T1406	1015	L-221	2-6480
Jackson, Sandy	361	1579	L-441	2-9308	Stone, Sharon	663	1000	L-723	2-7459
Jessup, Mary	111	169E	L-002	3-1760	Thomas, Karma	2775	1019	L-395	2-5300
Delage, Lori	511	151C	L-607	2-6941	Thompson, Michelle	871	124	L-871	3-1180
Johnson, Chris	132S	1377	L-171	2-2670	Twiss, Carol	571/671	1138	L-725	2-9395
Lindsay, Karen	321A	2100	L-337	3-5028	Watt, Maggie	332	1138	L-360	3-6003
Mahler, Florann	211	136	L-414	2-9173	Weyburn, Sandy	551E	221E	L-657	2-0840
Miller, Margie	314	1216	L-432	3-0265	Williams, Anita	132N	2254	L-170	2-4550
Nelson-Lee, Jennifer	5426	1009	L-621	2-5750	Yazzie, Darlene	132S	2322	L-182	3-7846
Olund, Cindy	131	2075	L153	2-3668	Ybarra, Corinne	482	2158	L466	3-9501
Owens, Cinda	191	2235	L-282	2-3392					



AUTOMOBILES

1971 - Porsche Targa Black on Black, Runs, Needs Major Upholstry and Brake work \$2,300 Firm 925-292-0134

1994 - Oldsmobile Eighty-eight LSS. Pwr everything, AC, cruise, 6-disc CD, ABS, lthr int. 100,000K plus miles. Kelly Blue Book \$2080. Asking \$1,500. 925-455-4208

2002 - VW Beetle Turbo S. Excellent condition! Silver, 6-speed, 4-Cyl, 1.8L High-Pressure Turbo, Lolack. LOADED! Only 21K miles! \$18,500. 209-832-9534

1996 - TOYOTA TACOMA, SR5 excab, V6, 4x4, TRD SuperCharger, Cat-back, AT, K&N, lift, Winch, Bumpers, Weld Wheels, Snugtop, stereo 6CD, Lighting, Locker, exc cond. \$14,400 209-765-9622

1988 - Ford Econoline Van, Custom, 130K miles, runs great, new tires, TV VCR, AC HR CC, seats 8 209-839-0068

1993 - SATURN SC2 coupe 2-door, blue-green, 4 cyl, 5 spd manual, A/C, AM/FM/CD, ABS, air bag, Yakima bike/ski roof rack, 116k mi (orig. owner), \$2200. 925-449-4296

1965 - Mustang, GT disc brakes, new interior (dark blue) and other parts. \$1200 obo 925-462-5559

1998 - Red Dodge Caravan, At, Power Locks, 5 Doors, Tinted Windows, Cd Player, Alarm System, V-6, 84k Miles, Xclnt Condition. \$6,800. 209-883-2217

1998 - Chevy Malibu, 4-Cyl, 86K miles, automatic, CD/Cassette, power windows/locks, cruise, alarm, AC, good cond, \$4500 OBO 925-455-5004

1957 - Oldsmobile Super 88, 2 door hard top. \$3000.00. 209-874-3724

2001 - Mitsubishi Eclipse. White, pw, pdl, cd, 55k, great cond, great car. asking 10,000 925-443-3358

1995 - GMC SAFARI AWD SLT Package, loaded, very clean, all options, great for skiing, 136k miles. \$4500./offer 209-599-4644

1992 - Toyota Camry, 154K miles, white, manual transmission. \$1800 925-449-6048

AUTOMOBILE ACCESSORIES

Edelbrock Carburetor, 4 Barrel 600 CFM, good as new (used one week) w/Crome Air Cleaner. \$190.00 925-443-7729

Zymol boxed car care kit with full size wax, wash, detail, leather cleaner & conditioner. Never opened. \$25. 925-648-0671

BICYCLES

14 inch Shogun Trailblazer 1 mountain bike. Good condition. Suit older child or shorter adult. \$150 ono 925-449-2038

BOATS

98 Blue Water 18ft. IO 190 Merc. HP, 32 hours. Bimini Top, Bow Cover, Stereo-am/fm cassette w/4 speakers. Include ski equipment & more. \$11,700. 925-449-4326

2003 Reinell 190, Volvo Penta 4.3 GL, 20 hrs., cockpit & bow covers, bimini, 6 yr. extended warranty, hr. meter, trailer, \$18,000, OBO 925-373-1504

1974 16ft Bass Boat, 85hp outboard, new trolling motor and batteries, two flashers, new seats and carpet. Cell 209-996-1185 \$2400/obo 209-892-5734

Wht 1997 Shorlandr single jetski trailer. Great condition. \$575 OBO. Can bring to the lab to view if needed. 209-634-6309

CAMERAS

Omega enlarger. Color head. 35mm to 4x5. Make offer 925-447-7751

Nikon N50 SLR 35mm camera with standard AF lens. Includes case. \$100. 925-699-4763

ELECTRONIC EQUIPMENT

Arcade Game: Full-size video arcade game, 4-player, By Konami, Great condition. Perfect for the garage or game room. \$500. 925-484-0697

SEGA Dreamcast system. Console, one controller, 7 games, and one memory card. \$25. 925-456-8120

PIONEER HOME THEATER DVD RECEIVER SYSTEM \$500 new, \$200 OBO, see at

CLASSIFIED ADS

Radio, 5 CD/DVD/RD/RW, 6 spkr, Top Shape 925-931-1557

PCsys(1GB), CDrom, CD burner, 20GB HD, 256ram, cable/DSL ready, 15inch flat scrn panel w/spkrs, MS Office & Canon AllinOne printer. \$550.00/FOR ALL 209-835-8189

GIVEAWAY

1960 Hoffman B&W TV in excellent original condition. Was part of our 50s room. Free to someone who will take good care of it. 925-846-1459

Free sailboard, 8ft-6in Dill, good condition, with straps. 925-803-5804

Free to a good home: Epson Stylus 800 Color printer, with extra color print cartridge. 925-454-1439

Comb bookbinder with supply of combs 925-829-3175

MacIIX and, or Mac Performa 638CD 925-447-5831

Toilet bowl, white, elongated, American Standard 1.6 gpf, very good condition. Remodel requires that it go to a new home. 925-449-6911

HOUSEHOLD

Britax Freeway Carseat w/ top tether, \$65. Baby Bjorn boys potty chair, \$10. 925-454-0877

Toddler bed, \$10, rocking chair, \$10. Both in good condition. 925-371-1076

Electric Dryers, New apartment size 120 volt, white \$49, Used Kenmore full size 220 volt \$29. Guaranteed, deliver Livermore area. 925-447-9509

Prima Pappa Highchair in great cond. Tons of features inclds. removeable double tray. Collapsible for easy storage, retails for \$160, asking \$70. 925-455-4208

Kenmore washer and dryer, almond color, 12 years old, in working condition, \$25.00 each. 925-625-7914

Ice cream maker, pasta maker, wall paper, dresser, tall 5 drawer dresser, 2 night stands. VG condition, all wood. New \$1400. All for \$300. 510-338-0237

Wicker/glass table and 4 chairs. \$75 obo. 925-708-7946

Bunk beds with mattresses, hardly used, very clean, beautiful birch wood, in exclnt shape. Paid \$550 less than 2 yrs ago. Asking \$350 925-449-4796

Full size portable dishwasher 2yrs. old and works great. Very minor cosmetic scratches on side. No longer needed. \$150.00 obo. 510-209-0999

Emerson microwave, good condition, runs good. Basic model. Asking \$25.00. 510-537-7222

Task chairs 2, fully adjustable, brown tweed and black fabric, xclnt cond., 5 leg base \$20 each 925-829-3175

Microwave Oven, While Quasar \$10. 925-449-1464

Desk, small 4 drawer, single pedestal, dark all wood. Fits small space & easy to move around. \$15. 925-484-0697

1999 Kirby Model G5 vacuum cleaner w/shampooer and all attachments. \$450 obo. 209-814-7803

Solid maple crib, mattress, mattress pad, and matching changing table. 3 years old in excellent condition. \$250 925-516-8339

Twin, oak bookcase headboard with frame and mattress. \$50. Solid oak roll top desk, not a scratch. \$500. Weider 3 station weight machine. \$100 925-516-8339

White bathroom sink cabinet w/ cultured marble sink. Good condition. \$125 OBO. Wht cast iron double sink, good condition. \$125 OBO. 209-634-6309

Queen size bedroom set including bed, matress, box spring, two dressers. Good condition. \$1200 obo. 209-825-7131

MOVING - Washer \$100, Dryer \$25, Amana Refrig, bottom freezer 20cf \$200, Avail 3/12. Queen sofa bed/matching chair \$150. 925-968-1394

Brand new leather couches! Moving and must sell. \$800 couch, \$700 love seat. Photo available. 925-934-1530

Royal electric office typewriter. Good cond. extra ribbon. 925-447-7751

Beyonce new Dangerously In Love CD. \$10. 925-648-0671

Oak entertainment center, 64inx18inx74in, adjustable shelves fits 27in TV, \$200 925-455-5863

Gas dryer & washer machn. for sale works great or trade for pool table or pinball machn.call for price. avail.after 3/15. 925-548-8574

Drexel bedroom set, queen bed frame and headboard, armoire, dresser/mirror, 2 night stands, good condition, \$500.00/bo 209-839-0872

LOST & FOUND

Lost, February 12th, mixed jade and gold bracelet. Recent birthday present. Help! 925-373-8393

MISCELLANEOUS

Nice diningroom light fixture, antique looking. Good price. \$15.00. Small TV for bedroom or kitchen. Good picture. \$25.00 510-537-7222

COMPRESSOR, gas powered, broken starter rope \$100. 925-443-1547

Pool cover holder / roll-up, roll-out, adjustable width \$25. Deliver Livermore vicinity. 925-447-9509

8 inch Mini Lathe - Craftsman; great for making pens and other small wood projects; 3 speeds. 1 year old; great condition. \$75.00 925-831-1288

Honeywell Enviracarie portable room air cleaner. Has HEPA filter w/charcoal wrapper plus instructions. \$25, incl extra wrapper. 925-846-3653

BIRKENSTOCK sandals, size 11, brown Arizona style. New gift from Germany but too large. \$50 925-699-4763

White plantation shutters, fits 106x80 inch slider. Perfect Condition. \$300 OBO. 925-314-9478

Room air cleaner, portable HEPA, Honeywell 12500, used two days \$75 925-829-3175

Lawn Spreader, for pull behind lawn tractor, \$25. Also, lawn aerator, \$25. 925-484-0697

Generac Generator, 15kw Model# 04188, Brand new still in shipping crate. \$4000.00 209-838-1490

Nikota 1300 PSI pressure washer. Great for boats, cars, decks. Used once successfully on tough job. New \$80 Now \$50 925-447-5831

Rototiller, Troy-bilt 8 hp. New motor, bumper, blade, hiller attachments. \$550 925-447-7751

Tanning bed, Sunquest Wolf. Very little usage. Paid over \$2,200. Excellent condition. \$1,200. 925-648-0671

MOTORCYCLES

2000 - Honda Nighthawk CB750 700 total miles, Fairing and Saddle Bags \$3500 firm 209-836-3069

1988 - 1988 BMW K100LT, only 11K original miles, like new. Always covered and garaged. New Metzlers! \$4900. 925-846-1459

1999 - Yamaha PW 50 great first bike very reliable great condition.daughter outgrew bike.\$800.00obo 209-823-1111

1984 - Honda Goldwing - Interstate. Great bike with extras, CB \$1,800 OBO 209-823-3685

2002 - Yamaha YZ426. approx. 75 hrs. Well maintained. Must sell, \$3,700 obo. 209-814-7803

1986 - Suzuki GSXR400, yes 400. Japanese spec 4 cyl 398cc Import with 59bhp and 300lbs. Would make a fun track bike, call for info. \$1100 offer. 209-835-4281

1993 - Harley FLHS. S&S stroker, Supertraps, strong runner, 48k miles, \$12,500 925-447-7751

1999 - Yamaha Kodiak 400 4/4 \$2800 209-832-7655

MUSIC INSTRUMENTS

Piano, Baldwin spinet. Excellent condition \$2000 925-455-1486

Piano. \$350.00 includes bench and tuning within 20 m of LLNL. You move. 925-371-6997

PETS & SUPPLIES

Tigger cat needs a home, healthy male 5

See complete classified ad listings at <https://www-ais.llnl.gov/newsline/ads/>

years, yellow tiger, looks like Morris, indoor/outdoor lap cat needs one adult, not good with other pets. 209-839-0068

Dog kennel, cyclone fencing, 16ft x 8 ft with latching gate. \$250.00. 2 large dog houses, \$40.00 ea./obo. 925-443-6052

Jack Russell terrier, 1 1/2 yr old female, sweet personality, only to LOVING home! 925-449-5088

Hamster, Mice cages, 3 units. Two plastic w/exercise wheels & water bottles. One wire w/water. \$10.00 obo. 925-443-7729

Bird Cage and Manzanita perch. Suitable for medium to large bird. Good condition. \$75 each. 209-825-7131

Aquarium filter up to 100 gal. Salt or fresh water. \$100.00 209-474-6334

RECREATION EQUIPMENT

Golf club travel case in good condition. Durable hard sided case, forest green. Great for air travel. \$15 OBO. 925-455-4208

GOLF CLUBS, Top-Flite Tour midsize, 3-PW, plus putter, sandwedge, Titanium driver, fairway woods, and bag. \$100 925-699-4763

TaylorMade 320ti 7deg. Driver. 8 out of 10 condition. Custom shaft and grip. \$90 obo. 209-982-0076

Pro Form Treadmill, Model 775EKG, one year old all original paperwork/manuals, folds for easy storage, transferable extended warranty \$450/OBO. 925-447-4797

Weider Home Gym. Great condition. 2 Station 5 exercises. Barely used. \$150 obo u-haul. 925-292-5042

ProForm 325X Treadmill <1 year old - great cond. Incline option, displays fat, cal, dist, time, heart, and folds up. Paid \$750, Asking \$500. 925-575-0240

RIDESHARING

Express your commute, call 2-RIDE for more information or visit <http://www-r.llnl.gov/tsmp>

Modesto Vintage Faire Mall Park-n-Ride - Immediate Openings 1 rider and two standbys, Luxury vanpool, captain seats, reading lights, cellphone 8-4:45 ridership-based fares 209-544-2236, ext. 3-3194

PATTERSON - Vanpool has seats available for M-F 7:30-4:00 shift. Pre-tax transportation and Guaranteed Ride Home programs available. Fare based on ridership. 209-892-2118, ext. 2-9502

BERKELEY - Rider/driver needed to complete a four person carpool from north Berkeley. Leave Berkeley at 7 am; leave LLNL at 4:40 pm. 510-524-8332, ext. 2-5949

Modesto/Ripon - Van Pool has openings for full time riders. Work hours are 8:00 - 4:30, maybe 4:45 depending on pick-up point. 209-544-6411, ext. 2-2727

SERVICES

Want help preparing your income tax return? Free \$20 discount coupon for any tax service. E-filing. Livermore location. Call Gail. 925-828-8378

Piano Tuning--your place or mine. 10% LLNL discount on regular tuning. 925-371-6997

SHARED HOUSING

Livermore - Large room in 2 story house. Pool, hot tub, exercise room with Nordic track/treadmill. 10 minutes from the lab. \$700 month including utilities. 925-899-9675

Brentwood - 3 Rooms for rent in the BRAND NEW 4 BR 2.5 BA House. The rent includes access to the entire house. 925-413-6505

Ripon - Room for rent. Clean/quiet/single/non-smoking mature adult. 3b/2b, \$500/month + 1/3 utilities. Deposit. (209) 815-6712 (cell) 209-599-7446

Livermore, Ca. - Room For Rent w/kitchen & bathroom. No smoking, no pets. 925-455-8043

Livermore - furnished room for rent. Clean/quiet. No pets/no smoking. \$550.00/month. Share utilities 1/3. Deposit. Mature adult 925-449-1128

Livermore - Room for rent, full priv. share util 1/3, non smoker, \$550 mo. plus deposit 925-292-3356

Livermore - - Room for Rent, clean and quiet, nice neighborhood, cable hookup, garage, non-smoker, \$600 / month plus

utilities. No deposit required. 925-449-6898

Livermore - Large furnished room for rent \$550 mo, utilities incl. Full priv. shared bath. Mature adult, non smoker, no pets. Deposit. 925-447-6218

TRUCKS & TRAILERS

1997 - Ford F150, Ext Cab 3rd door, Lariat, Leather, 4X4, 4.6L, CD chgr, 91K mi. \$12,500 OBO 925-455-8006

1999 - Ford F150 XLT S/Cab, V8, full power, ext. cond 67K miles, \$13,500 call 209-599-3285

1996 - Jayco Tent trailer. Fully loaded, comfortably sleeps 6. Outside shower and portable toilet. \$5800.00 925-366-6986

2001 - KIT/SUNCHASER 19ft Lite, aluminum frame. Sleeps 4, self contained, like new, many extras. Tow w/ V6 SUV. Asking \$11K OBO. 925-525-3525 925-447-3964

1988 - F-800 Ford 20ft. box van, runs great, passes smog. 4Klb lift gate, \$3800.00. Great for moving or storing. 925-513-4488

2000 - Haulmark, enclosed 5X8 trailer, like new, upgraded, used very little, \$1,600.00 209-538-8060

1972 - Miley 2 horse trailer, extra wide, surge brakes \$750 209-832-7655

VACATION RENTALS

Snowy mountain cabin near Arnold. 4bedr, 2 bath, fully equipped kitchen, wood burning stove. Close to Bear Valley Ski Resort. 925-245-1114

Sooo cute beach cottage in Santa Cruz. 4bks from ocean. 2 bedr, 2bath, fully equipped kitchen, spa. Close to boardwalk. 925-245-1114

MAUI oceanfront condo: ocean view, white sandy beach, pools, tennis, snorkeling. Pro golf nearby. Low LLNL rates. 925-846-1459

Maui, HI - Kahana Reef oceanfront 1BR/1BA condominium. Beautiful two-island view, oceanside pool, and BBQs. LLNL rates for year-round reservations. 925-449-0761

S. Lake Tahoe, 5-star Ridge Sierra, 2bdm/2ba, ridge club, 8/7-8/14. \$750. web search for details. 925-365-0859

Pine Mountain Lake, Townhouse with golf course view, Two bed, two bath, Near Yosemite in Groveland. 408-268-7924

S. Lake Tahoe - Timeshare for sale at Heavenly Valley. Tahoe Seasons Resort, July 4th week (tradeable all year). \$4500. 925-829-5890

SOUTH LAKE TAHOE - 3Bedroom 2 bath Chalet, nicely furnished, all amenities, close to all skiing, RESERVE NOW for OPENINGS! FEW WEEKENDS LEFT! 209-599-4644

WANTED

Housesitter/dogsitter (\$200/\$100) needed for March 20th though March 26th for two small dogs 15 years of age. 925-784-9034

Low price or free standard or queen size mattress for occassional use. 925-709-1794

USED IMac or Mac with Version 9 operating system, screen and keyboard. 925-449-7888

Searching for a recumbent exerciser bike for disabled person. Not over \$80.00. 510-537-7222

Play paintball at a field in Brentwood no cost just buy your balls and rental equipment if needed (\$15.00 gun mask co2 hopper) call for ball prices. 925-240-6642

Trampoline in good condition. 925-449-3499

Helmet (motorcycle) needed. Dirt or full faced. Medium size 7 1/4. If you have one laying around. 209-814-9301

Please note:

Services and merchandise listed in *Newsline* are not guaranteed. It is up to the buyer to scrutinize services purchased.

Due to space limitations, *Newsline* may withhold ads that have already run. They will still appear on the Web.

Frequently asked questions about the A&S restructuring

Over the past week, numerous job slotting training sessions and two employee brown bag briefings have been conducted. To date, more than 300 employees have attended either a training session or briefing. This week's article will focus on some of the most frequently asked questions regarding the A&S Restructuring.

What jobs are included in the A&S Restructuring?

All 100 series jobs are included in the A&S Restructuring with the exception of jobs in the 196 (excluding lawyers and counterintelligence), 197 and 175 classifications, and health and safety jobs. Jobs in the 196/97 series will be included in a management series review later this year.

Who was involved in the development of the Job Family Matrices?

More than 75 managers, supervisors, employees and directorate points of contact collaborated with the Compensation staff and Watson Wyatt (external human resources consulting firm) in the development of the Job Family Matrices.

What is the purpose of the employee comment period on Job Family Matrices?

In developing the Job Family Matrices, extensive effort was made to capture the essence of each job family and discipline. Employees at various levels participated on job family work teams and provided input to the final drafts currently under review. The comment period offers employees the

opportunity to provide input prior to Job Family Matrix finalization.



What if an employee's job does not fit into a Family, Discipline or Career Level as defined in the Job Family matrices?

The vast majority of jobs will fit into the Job Family Matrices using a "best fit" approach. Best fit means jobs will be slotted based on the preponderance of work performed. For jobs with unique or co-mingled job content, a generic matrix will be available.

What happens if an employee's job responsibilities cross multiple disciplines or levels?

Some jobs may have "co-mingled or unique" work that crosses disciplines. Managers/supervisors will be evaluating where the preponderance of work "best fits" into the job families and disciplines. If the work cannot be slotted into a specific discipline, a generic matrix will be available.

In analyzing which career level is most appropriate, managers/supervisors will evaluate where the preponderance of work falls, taking into account that most jobs will include some percentage of time spent performing both lower and higher level work.

Is the person or the job being slotted?

Slotting is based on the work being performed in the job. How well an employee performs in the job is evaluated as part of the performance management process.

How will the Laboratory help ensure cross-directorate equity and consistency?

Employee brown-bag sessions

Compensation will hold additional brown-bag sessions to give an overview of the A&S Restructuring, including the matrices that are out for employee comment. These will be held in the Bldg. 361 auditorium (room 1140) on Wednesday, March 3, from 1-2 p.m.; and Thursday, March 4, 8:30-9:30 a.m.

Questions and comments may be submitted by accessing the A&S Restructuring Website at <http://www-r.llnl.gov/ASR>

Key points previously covered

Previous articles have discussed:

- Key drivers for undertaking the Administrative and Specialist Restructuring.
- The Job Family Matrix, a common format for capturing job content and levels.
- Developing market driven pay structures.

After initial slotting recommendations are submitted, Compensation will analyze the distribution and audit the job levels across directorates to identify possible slotting irregularities. An advisory panel will be established to review these analyses and work with Compensation to address any anomalies.

When will employees' jobs be slotted and when will they be informed of the results?

Initial slotting will be completed in the March 1-12 timeframe. Slotting is scheduled to be finalized in early April. Employees will be notified in early to mid-May.

Will there be an employee appeal process?

The intent is to implement an informal appeal process that would begin in June and will be completed in the fall. More details will be provided as this process becomes finalized.

How will the implementation of the A&S program affect this year's performance review?

The implementation of the A&S program will not affect this year's performance review because goals and objectives were established last year based on the existing 100 series classification system. The new A&S program will assist in establishing future goals and expectations.

REED

Continued from page 1

which will be released by Random House on March 9, just prior to his talk at the Laboratory. The introduction to the book is by former President George H. W. Bush, and the volume is based on archival research as well as interviews with major Cold War players — from U.S. Presidents to Soviet generals, from policy makers to nuclear scientists.

Reed's book on America's battle against communism begins in 1953 — with the death of Stalin, which he says was orchestrated by Lavrenti Beria, Stalin's chief lieutenant for nuclear and security matters and former head of the KGB — and ends with the closing of the Strategic Air Command. Other characters who appear prominently in the book are Dwight David Eisenhower, Whitaker Chambers, POW Admiral James Stockwell, Ed Hall, Ronald and Nancy Reagan and George H.W. Bush.

"Tom was at the center of the action, and his stories are both surprising and riveting," says Bruce Tarter, former Lab director. "They help balance the current more benign perspective of the Cold War and remind us what a dan-



Tom Reed

gerous and frightening time it was when we were competing with the Soviets on the nuclear frontier."

In early publicity for the book, Edward Teller called Reed "one of Livermore's most creative designers of thermonuclear devices" in the 1960s, and ranked his career as a practicing physicist and public servant "first class." *Publishers Weekly* gives the book high marks for "how much it pulls together, as well as offering a viewpoint on the Cold War not nearly sufficiently well-represented in the public literature...."

Reed himself writes: "The Cold War... was a fight to the death, fought with bayonets, napalm, and high-tech weaponry of every sort — save one. It was not fought with nuclear weapons."

The Time Zone will have discounted copies of the book for purchase ahead of the talk with expected date of arrival on March 12. Marie Teuscher of LLESA recommends telephoning the store at 2-9035 to ensure the books are available. Reed will be at the store earlier during the day on March 16 to sign copies.

Tales from the Cold War, according to 'At the Abyss'

- 1953** Lavrenti Beria murdered Joseph Stalin.
- 1958** Ted Hall had been a Soviet spy at Los Alamos; his brother, a USAF colonel, directed America's pioneering missile programs in Los Angeles.
- 1953-60** Eisenhower authorized photoreconnaissance overflights of the Soviet Union throughout his term in office.
- 1962** At the time of the Cuban Missile Crisis, the Soviets had 98 nuclear weapons in Cuba; General Pliyev had the authority to use them.
- 1965-73** Admiral James Stockdale kept the real secret of the war in Vietnam to himself — through eight years of imprisonment and torture as a POW.
- 1966** During the 1960s, American H-bombs fell to earth — but without incident.
- 1982** The U.S. regularly planted Trojan horses into industrial software the Soviets were about to steal.
- 1983** President Reagan ignored his wife's desires for détente with the Soviets and pursued closing down the "evil empire."
- 1991** At the time of the attempted coup in Moscow, the Soviet General Staff disconnected the nuclear briefcases assigned to all the contending members of the Politburo.
- 1993** If the first attack on the World Trade Center had used stolen nuclear material instead of fertilizer, everyone south of Central Park would have been killed.

There's no reason to get rattled as snake season starts

The Northern Pacific rattlesnake is the only native venomous snake to Northern California. Some key traits of the reptile are aptly depicted through its scientific name. *Crotalidae* is derived from the Latin (*crotalum*) meaning "rattle." *Viridis* describes the green coloration that is a particular trait to the snake in this region. *Ore-ganus* refers to the location of the specimen that classifies the species throughout its range. The geographic range of the Northern Pacific rattlesnake reflects its namesake as well: Santa Barbara north through Oregon and Washington states.

Knowing how to handle an encounter with a rattlesnake is a good idea for those who work in dry, rugged areas like the Laboratory's Site 300 Experimental Test Site. But a cognitive understanding may also benefit people active outdoors in Livermore or other areas where suburbia abuts large areas of wild land. These snakes prefer dry, remote, rocky outcrop areas where they can den in the summer and sleep in the winter. A key item to remember is that rattlesnake populations are cyclical — during some years the numbers are higher and other years they are lower. So, observations and encounters may vary greatly over time. Below are two main aspects of snake ecology that, when taken to the field, should allow you to make an informed decision about the rattlesnake realm.



JEFF MILLER



Left, the Western rattlesnake, also known as *Crotalus viridis ssp.*, is coiled and ready to strike. Above, a gopher snake is often mistaken for a rattlesnake at first glance.

are not a true identifier of a rattlesnake. Gopher snakes, the more common non-venomous compatriot of the California grasslands, have adopted very similar markings and will even buzz their tail to mimic their poisonous counterpart when alarmed, hoping you will mistake them for a rattlesnake and give them wide berth.

Three of the best physical descriptions of the Northern Pacific rattlesnake are the following:

- Rattlesnake tails transition into white and black rings at the base.
- Rattlesnakes have a wide and triangularly-shaped head on a slender neck.
- At close range, rattlesnakes have a vertical pupil (much like the eye of their viper-like ancestors).

Behavior of the snake

Rattlesnakes are definitely venomous, but if you live or work around them the snake often appears reclusive in nature. The majority of documented bites center around animals that are suddenly surprised or provoked. Many people have inadvertently walked on or over these snakes with no harmful consequence. Studies indicate that venom is used primarily for collection of prey. In fact, many members of the pit viper family have full control over how much venom is injected and from one or both of the fangs. It is not unusual for a person that was struck by rattlesnake to receive a "dry bite" whereby venom was not actually released. These snakes are primarily nocturnal and movement patterns during the day are generally related to an increase in appetite, local disturbances or breeding activities.

Keep a safe distance from any sunning snake and stay away from animals crossing roads that are coiled to strike. It's always a good idea to watch any snake from a distance. When hiking or working in the field, wear a boot with coverage extending above the ankle. See the Department of Fish and Game Website (www.dfg.ca.gov/news/news03/03054) for other advice on snake safety.

Recognizing the snake

As March approaches, and the seasonal changes cause an increase in sunshine and daily temperatures, it's a good idea to know how your activities outside may coincide with the rattlesnakes'. At the Laboratory, the Northern Pacific rattlesnake is most likely to be seen at Site 300, but can also be found in the rocky terrain of grassland habitats surrounding Livermore's main site. Understanding some key aspects of snake appearance and behavior may help you during an unexpected

meeting while you work in the field or walk along a local country road.

Identifying a rattlesnake is not always a simple task. From a distance, their beige colors and elongated shape are much like any other snake of the area. Contrary to popular belief, they rarely reach lengths of over 4 feet. Coloration can range from dark green on the back and yellowish on the belly to complexes of drab brown and tan tones. Dorsal patterns or "diamonds" across the back

GAMMA

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nal Letters.

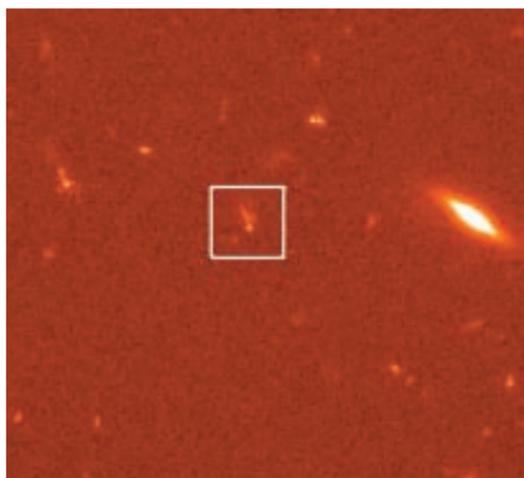
Through calculations, the researchers found that in addition to radioactive nickel that decays to iron after a few months, GRBs also produce copper and zinc.

The amount of copper and zinc produced is so significant that it is hard to comprehend just how many coins could be created from one GRB. A modern penny is made up of 97.5 percent zinc and 2.5 percent copper. Nickels and other coins are made mostly of copper.

Most astrophysicists agree that GRBs are produced by a viscous black hole accretion disk formed after the collapse of a rotating massive star (also known as a failed supernova or collapsar). A GRB is the birth cry of a black hole with mass a few times that of the sun. In earlier works, Pruet, Rob Hoffman of LLNL and others observed that the radioactive nickel is produced from a vigorous wind blown from the accretion disk of that black hole.

Pruet said these earlier observations prompted LLNL researchers to ask, "What comes out along with the nickel?"

By modeling the outflow and using large nuclear network calculations maintained by Hoffman of



CALTECH GRB TEAM AND NASA

LLNL researchers have found GRBs like the one in the white box contribute to the inventory of many common elements.

GRBs were first discovered by the Vela satellites looking for detonation of nuclear weapons in space. For a few tens of seconds, each burst shines brighter than all of the stars in a million galaxies combined.

Pruet's research has implications for recently observed X-ray emission lines that scientists believe came from iron. The scientists' research shows that the lines may instead be from nickel produced in the disk that lines the falls of the hole left over from a jet or small amounts of nickel that have been ejected rapidly behind the jet.

"GRBs are important for galactic chemical evolution and can make sizeable contributions to the amount of calcium, scandium, titanium, copper and

LLNL, the researchers found that GRBs also produce enormous quantities of such everyday elements as zinc, titanium, calcium and scandium.

"Although less than a few out of every hundred stars are expected to produce GRBs when they die, these rare events probably account for as much of some elements as all other stellar explosions combined," Pruet said. "To put this in perspective, the raw material for about twenty pennies in every dollar may have narrowly escaped being eaten by a black hole."

zinc in the galaxy. Because of this, we should be able to read the history of gamma-ray bursts in the nuclear abundance patterns of old stars," Pruet said.



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